UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/722,746	11/25/2003	Donald P. Orofino II	MWS-027	7299	
	7590 10/05/200 <b>CKFIELD, LLP/TH</b> E	EXAMINER			
FLOOR 30, SU	ITE 3000	FREJD, RUSSELL WARREN			
One Post Office Boston, MA 02		ART UNIT	PAPER NUMBER		
·			2128		
			MAIL DATE	DELIVERY MODE	
			10/05/2009	PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	pplication No. Applicant(s)					
			10/722,746		OROFINO ET AL.			
Office Action Summary			Examiner		Art Unit			
			Russell Frejd		2128			
Period fo	The MAILING DATE of this commun or Reply	nication appe	ears on the co	over sheet with the c	correspondence ac	ldress		
WHIC - Exter after - If NC - Failu Any (	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M Isions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr period for reply is specified above, the maximum start to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATES of 37 CFR 1.136 munication. tatutory period will will, by statute, c	TE OF THIS  S(a). In no event,  Il apply and will excause the applicat	COMMUNICATION however, may a reply be tin pire SIX (6) MONTHS from ion to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).			
Status								
1) 又	Responsive to communication(s) file	ed on 25 No	vember 200:	3				
•	•	2b)⊠ This a		=				
3)		<i>,</i> —			secution as to the	e merits is		
٥/١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		,	-,				
· · _		application						
•	Claim(s) <u>1-89</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.							
		ire williurawi	II IIOIII COIISI	deration.				
	Claim(s) 85-89 is/are allowed.							
· · · —	☑ Claim(s) <u>1-42,44-58 and 60-84</u> is/are rejected.							
•	Claim(s) 43 and 59 is/are objected t							
8)[_]	Claim(s) are subject to restrict	ction and/or	election requ	urement.				
Applicati	on Papers							
9)	The specification is objected to by th	e Examiner.						
10)🛛	The drawing(s) filed on <u>25 <i>Novembe</i></u>	<u>er 2003</u> is/are	е: а)⊠ ассе	pted or b) <mark></mark> object	ed to by the Exan	niner.		
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including	g the correctio	n is required	if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2)  Notic 3)  Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	4) 5) 6)	<b>二</b>	ate			

Art Unit: 2128

# Examination of Application 11/722,746

**1.** Claims 1-89 of application 11/722,746, filed on 25-November-2003, are presented for examination.

## Claim Rejections under 35 U.S.C. § 112, 2nd Paragraph

2. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The phrase [line 5] "being free of structure and operation for operating on the second signal type" is vague.

#### Claim Rejections under 35 U.S.C. § 101

- 3. 35 U.S.C. 101 reads as follows:

  Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter or any new and useful improvement thereof, may obtain a patent therefore, subject to the conditions and requirements of this title.
- **3.1** Claims 1-58 and 60-84 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
- 3.2 The Examiner posits that claims 1-5, 8-15, 18-40, 42-51, and 75-77 of the present invention are computer executable software code, or a program per se, consisting software instructions that implement the method for providing a graphical modeling environment. For at least this reason, the software instructions of the present invention do not meet the criteria for a statutory process (MPEP Section 2106.01).

Art Unit: 2128

3.3 Furthermore, claims 52-58, 60-74, and 80-84 are determined to not meet the criteria for a statutory process due to the description on page 14 of the specification, wherein the medium is described as encompassing a wireless network that encodes a data signal. The Examiner respectfully notes that each of these claims is directed to a "medium holding device executable instructions", which is deemed to not be the equivalent of a "medium storage", and therefore includes the wireless option. In view of the guidelines for 101 subject matter, the holding medium of claims 52-58, 60-74, and 80-84, does not manipulate appropriate subject matter, and thus cannot constitute a statutory process under 35 U.S.C. § 101.

In regard to claims 1-39, 41, 42, 44, 45, and 75-79, and in view of the memorandum from Andrew Hirshfeld dated 24-August-2009, a § 101 process must: (1) be tied to another statutory class (such as a particular apparatus), or (2) transform underlying subject matter (such as an article or materials) to a different state or thing. If neither of these requirements is met by the claim, the method is not a patent eligible process under § 101, and is therefore non-statutory subject matter. To qualify as a § 101 statutory process, the claim should positively recite the other statutory class (the thing or product) to which it is tied, or positively recite the subject matter that is being transformed. In regard to claims 1-39, 41, 42, 44, 45, and 75-79, there is no positive recitation of either implementing the method on a particular machine or transforming a particular article. For this reason, claims 1-39, 41, 42, 44, 45, and 75-79 do not qualify as a statutory process. The Examiner respectfully notes that a positive recitation of the steps being implemented on a computer would overcome this rejection.

# Claim Rejections under 35 U.S.C. § 102

**4.** The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Application/Control Number: 10/722,746

Art Unit: 2128

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Page 4

**4.1** Claims 1-4, 7, 14, 18, 24, 28, 30, 31, 34, 44, 52-55, 57, 60, 63, 75, and 76 are rejected under 35 U.S.C. 102(b) as being anticipated by the article authored by Taniar, entitled *Inheritance and Parallelization: Emerging Object-Oriented and Parallel Technologies for High Performance Database Systems*, which discloses:

(Claims) 1, 24, 34, 52, 60, and 75: providing a first signal type for a signal in the graphical modeling environment [super-class]; and defining a second signal type that inherits from the first signal type [sub-class][p. 639, col. 2, par. 3].

2-4, and 31: wherein said first signal type is associated with a block in the graphical modeling environment [Fig. 1].

7: wherein at least one of a signal of said first signal type and a signal of said second signal type are visually depicted in the graphical modeling environment [Fig. 1].

14, 54, and 55: wherein the first signal type and the second signal type each have one or more attributes [p. 639, col. 2, par. 3, see "properties"].

18, 44, and 57: wherein each signal type comprises a class p. 639, col. 2, par. 3].

Art Unit: 2128

28: extending the second object class to include one or more features distinct from features

of the first object class in the graphical modeling environment [p. 639, col. 2, par. 3, see

"specialized"].

30 and 63: providing two or more base object classes, each of the base object classes

representing a signal type [multiple super-classes is deemed inherent to the disclosure];

defining a first object sub-class that inherits from at least two of the base object classes;

and instantiating an object of the first object sub-class in representing a signal in the graphical

modeling environment [all at p. 639, col. 2, par. 3].

53: saving at least one of the first and second signal types in a memory location accessible to

the graphical modeling environment [p. 640, col. 1, par. 3, deemed inherent to the operation of a

processor].

76: wherein a second signal in the model in the graphical modeling environment represents the

parent signal type [p. 639, col. 2, par. 3, see "super-class"].

Claim Objections

**5.** Claims 5, 6, 8-13, 15-17, 19-23, 25-27, 29, 32, 33, 35-39, 41, 42, 45, 56, 58, 59, 61, 62,

64-67, 77-79, and 89 are objected to as being dependent upon a rejected base claim, but would

be allowable, pending resolution of any rejections noted above, if rewritten in independent form

including all of the limitations of the base claim and any intervening claims.

**Allowed Claims** 

**6.** Claims 40, 43, 46-51, 68-74, and 80-88 are deemed allowable over the prior art of record at this time, pending resolution of any rejections noted above, because the prior art does not specifically claim:

Page 6

(Claim) 40: providing a first block that outputs an instance of a first object class that represents a first signal type, propagating the instance of the first object class from the first block to a second block in the graphical modeling environment, the second block processing a feature of the first object class; and propagating from an output of the second block an instance of a second object class that inherits from the first object class, wherein the instance of the second object class represents a second signal type in the graphical modeling environment.

68: providing a first block that outputs an instance of a first object class that represents a first signal type, communicating the instance of the first object class from the first block to a second block in the graphical modeling environment, the second block processing a feature of the first object class; and in the second block, outputting an instance of a second object class that inherits from the first object class, wherein the instance of the second object class represents a second signal type in the graphical modeling environment.

80: performing a method in a graphical modeling environment, comprising the steps of: providing a second signal type for a signal in the graphical modeling environment, said signal type deriving from a first signal type; and instantiating the second signal type in representing the signal in a model in the graphical modeling environment.

Art Unit: 2128

# Response Guidelines

7. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see MPEP 710.02, 710.02(b)).

#### 7.1 Any response to the Examiner in regard to this non-final action should be

directed to: Russell Frejd, telephone number (571) 272-3779, Monday-Friday

from 0530 to 1400 ET, **or** the examiner's supervisor, Kamini Shah, telephone number (571) 272-2279. Inquires of a general nature or relating to the status of this application should be directed to the TC2100

Group Receptionist (571) 272-2100.

mailed to: Commissioner of Patents and Trademarks

P.O. Box 1450, Alexandria, VA 22313-1450

or faxed to: (571) 273-8300

Hand-delivered responses should be brought to the Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA, 22314.

/Russell Frejd/ Primary Examiner AU 2128